



Revision date: \_\_\_\_\_

Date of issue: \_\_\_\_\_

Version: 0

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product form: May be in membrane, sheet, sponge, fiber, powder, and/or granular forms  
 Product name: Collagen: Type I from Bovine deep flexor tendon

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture: Laboratory chemicals, Manufacture of substances

### 1.3. Details of the supplier of the safety data sheet

Integra LifeSciences Corporation, Inc.  
 105 Morgan Lane  
 Plainsboro, NJ 08536  
 Telephone: 1-609-257-0500 [www.integralife.com](http://www.integralife.com)

### 1.4. Emergency telephone number

Emergency number : (609) 275-7303

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

The product as manufactured is a solid composed of encapsulated chemical ingredients. No hazardous exposures are anticipated during normal product handling and use conditions.

#### GHS-US classification

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL:NA	ACGIH TLV: NA	Other Limits Recommended
<b>Chemical Name:</b> Type I Collagen from Bovine deep flexor tendon			
<b>Chemical Family:</b> Protein			
<b>Molecular Weight:</b> Approximately 100,000			
<b>DOT Classification:</b> Nonhazardous			
<b>CAS No.:</b> 9007-34-5			

### 2.2. Label elements

#### GHS-US labelling

Hazard pictograms (GHS-US)	Not a hazardous substance or mixture
Signal word (GHS-US)	NA
Hazard statements (GHS-US)	NA
Precautionary statements (GHS-US)	NA

### 2.3. Other hazards

Not a hazardous substance or mixture

### 2.4. Unknown acute toxicity (GHS US)

Not a hazardous substance or mixture

**SECTION 3: Composition/information on ingredients****3.1. Substances**

Type I Collagen from Bovine deep flexor tendon

**3.2. Mixture**

Name	Product identifier	%	GHS-US classification
Type I Collagen from Bovine deep flexor tendon	AT Collagen	99.99	

**SECTION 4: First aid measures****4.1. Description of first aid measures**

First-aid measures general:	Not a hazardous substance.
First-aid measures after inhalation:	If breathed in, move person into fresh air. If not breathing, give artificial respiration.
First-aid measures after skin contact:	Wash off with soap and plenty of water.
First-aid measures after eye contact:	Flush eyes with water as a precaution.
First-aid measures after ingestion:	Never give anything by mouth to an unconscious person. Rinse mouth with water.

**4.2. Most important symptoms and effects, both acute and delayed**

Symptoms/injuries	The most important known symptoms and effects are described in labeling (see section 2.2) and/or in section 11.
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**4.3. Indication of any immediate medical attention and special treatment needed: No data available****SECTION 5: Firefighting measures****5.1. Extinguishing media**

Suitable extinguishing media	Use water spray, alcohol resistant foam, dry chemical or carbon dioxide.
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**5.2. Special hazards arising from the substance or mixture**

Fire hazard:	No data available
Reactivity:	No data available

**5.3. Advice for firefighters**

Protection during firefighting	Wear self-contained breathing apparatus for firefighting if necessary.
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**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

General measures	Avoid dust formation. Avoid breathing vapours, mist or gas. For personal protection see section 8.
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**6.1.1. For non-emergency personnel****6.1.2. For emergency responders****6.2. Environmental precautions: Do not let product enter drains.****6.3. Methods and material for containment and cleaning up**

Methods for cleaning up	Sweep up and shovel. Keep in suitable, closed containers for disposal.
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**6.4. Reference to other sections: For disposal see section 13.**

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature: Room temperature

Incompatible materials : No data available

### 7.3. Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 8.2. Exposure controls

Appropriate engineering controls General industrial hygiene practice

Eye protection Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Skin and body protection Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Respiratory protection Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Appearance	Form- fibers	Vapor pressure	No data available
	Color- white		
Odour	No data available	Relative vapor density at 20 °C	No data available
Odour threshold	No data available	Specific gravity	No data available
pH	No data available	Solubility	No data available
Relative evaporation rate (butylacetate=1)	No data available	Log Pow	No data available
Melting point	No data available	Log Kow	No data available
Freezing point	No data available	Viscosity, kinematic	No data available
Boiling point	No data available	Viscosity, dynamic	No data available
Flash point	No data available	Explosive properties	No data available
Self-ignition temperature	No data available	Oxidizing properties	No data available
Decomposition temperature	No data available	Explosive limits	No data available
Flammability (solid, gas)	No data available		

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

- 10.1. **Reactivity:** No data available
- 10.2. **Chemical stability:** Stable under recommended storage conditions
- 10.3. **Possibility of hazardous reactions:** No data available
- 10.4. **Conditions to avoid:** No data available
- 10.5. **Incompatible materials:** Strong oxidizing agents
- 10.6. **Hazardous decomposition products:** No data available

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity:	No data available
Skin corrosion/irritation:	No data available
Serious eye damage/irritation:	No data available
Respiratory or skin sensitization:	No data available
Germ cell mutagenicity:	No data available
Carcinogenicity:	

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity:	No data available
Specific target organ toxicity (single exposure):	No data available
Specific target organ toxicity (repeated exposure):	No data available
Aspiration hazard:	No data available

## SECTION 12: Ecological information

- 12.1. **Toxicity:** No data available
- 12.2. **Persistence and degradability:** No data available
- 12.3. **Bioaccumulative potential:** No data available
- 12.4. **Mobility in soil:** No data available
- 12.5. **Other adverse effects:** No data available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal recommendations	<b>Product</b> Offer surplus and non-recyclable solutions to a licensed disposal company.
	<b>Contaminated packaging</b> Dispose of as unused product.

## SECTION 14: Transport information

In accordance with DOT / ADR / RID / ADNR / IMDG / ICAO / IATA

**14.1. UN number** None. Not a hazardous substance.

**14.2. UN proper shipping name** None. Not a hazardous substance.

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

#### SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### SARA 311/312 Hazards

No SARA Hazards

### 15.2. US State regulations

#### Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

#### Pennsylvania Right To Know Components

Type I Collagen from Bovine deep flexor tendon

#### New Jersey Right To Know Components

Type I Collagen from Bovine deep flexor tendon

#### California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

## SECTION 16: Other information

Full text of H-phrases:

None.	
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*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*

SDS US (GHS HazCom 2012)